

REMARKS

The present Amendment amends claims 53 and 54 and leaves claims 55-84 unchanged. Therefore, the present application has pending claims 53-84.

In paragraph 2 of the Office Action the Examiner objected to claims 54, 56, 58, 60, 62, 64, 66 and 68 as containing an informality. An amendment was made to claim 54 from which claims 56, 58, 60, 62, 64, 66 and 68 depend so as to correct the informality noted by the Examiner. Therefore, this objection is overcome and should be withdrawn.

Particularly, amendments were made to line 26 of claim 54 so as to insert the parentheses before "i+p".

Claims 53, 55, 57, 59, 61, 63, 65, 67 and 69-84 stand rejected under 35 USC §112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Various amendments were made throughout claims 53, 55, 57, 59, 61, 63, 65, 67 and 69-84 to bring them into conformity with the requirements of 35 USC §112, second paragraph. Therefore, Applicants submit that this rejection is overcome and should be withdrawn.

Specifically, amendments were made to line 33 of claim 53 from which claims 55, 57, 59, 61, 63, 65, 67 and 69-84 depend so as to change "x+y" to "x+w".

The Examiner's cooperation is respectfully requested to contact Applicants' Attorney by telephone should any further informalities or indefinite matter be discovered so that appropriate amendments may be made.

Claim 56 stands rejected under 35 USC §112, first paragraph as failing to comply with the written description requirement. Particularly, the Examiner alleges that the specification does not provide support for the equations as set forth at lines 9-12, 19-20 and 24-27 of claim 56. Applicants traverse this rejection for the following reasons. Applicants submit that the specification as originally filed clearly provide support for the invention as claimed in claim 56, particularly the equations at lines 9-12, 19-20 and 24-27 of claim 56 in a manner that would have reasonably conveyed to one of ordinary skill in the art that the inventors at the time the application was filed had possession of the claimed invention. Therefore, reconsideration and withdrawal of this rejection is respectfully requested.

In the Office Action the Examiner notes Applicants comments in the Remarks of the May 26, 2004 Amendment, said Remarks being incorporated herein by reference, regarding the support in the specification for the equations recited in claim 56. In said Remarks, it was stated that support for the equations can be found on page 24, lines 10-23 of the present application. The Examiner seems to disagree and suggest that Applicants may have intended page 25, lines 10-23 instead.

The Examiner is respectfully informed that the statement that support can be found on page 24, lines 10-23 of the originally filed verified translation is Applicants intended statement, there was no mistake. In fact, to be more specific support for the present invention as recited in claim 56 can be found on page 24, lines 18-24. This passage of the verified English translation specifically states that:

“Conversely, the same result may be obtained by performing a first order linear interpolation/extrapolation in the horizontal direction when the motion vector of a provisional representative point is found, and in the vertical direction when the motion vector of a pixel is found” [emphasis added].

As is clear from the above noted passage, the phrase “in the horizontal direction when the motion vector of a provisional representative point is found” corresponds to the subject matter of claim 55 and the phrase “in the vertical direction when the motion vector of a pixel is found” corresponds to the subject matter recited in claim 56. Thus, as is clear from the above noted description as set forth in the present application, the subject matter of claim 56 can be easily obtained by replacing the processings in the horizontal direction as per claim 55 with processing in the vertical direction to which claim 56 is directed. Therefore, by taking the very same processings (equations) as set forth in claim 55 and replacing the “y” and “q” horizontal parameters with the “x” and “p” vertical parameters, the subject matter of claim 56 can be obtained. Further, by replacing the other horizontal parameters of claim 55, namely uL, vL, uR and vR with the vertical parameters uT, vT, uB and vB the subject matter as set forth in claim 56 can be obtained. It should be noted that L means left, R means right, thereby constituting the horizontal direction, and B means bottoms and T means top, thereby constituting the vertical direction. Thus, in order perform the processing in the vertical direction as per the description at page 24, lines 18-24 of the present application the parameters used to perform horizontal processings are replaced with parameters used to perform

vertical processings, namely y, q, uL, vL, uR and vR are replaced by x, p, uT, vT, uB and vB.

Attached herewith is a Sketch which graphically illustrates the features to which claims 53 and 55 are directed and the features to which claims 54 and 56 are directed. The Examiner's attention is directed to the attached Sketch. As per the attached Sketch on x-y plot of the provisional representation points for the horizontal direction to which claims 53 and 55 are directed and the provisional representation points in the vertical direction to which claims 54 and 56 are directed are graphically illustrated.

Therefore, based on the above, it is quite clear that the subject matter recited in claim 56 is fully supported, enabled and described in the specification in such a manner so as to comply with the requirements of 35 USC §112, first paragraph. Therefore, reconsideration and withdrawal of the 35 USC §112, first paragraph rejection is respectfully requested.

Applicants note that the Examiner indicated in paragraph 6 of the Office Action that claims 54, 58, 60, 62, 64, 66 and 68 would be allowable if rewritten or amended to overcome the objections set forth in the Office Action. Various amendments were made throughout these claims to overcome the objections noted by the Examiner. Therefore, claims 54, 58, 60, 62, 64, 66 and 68 are allowable as indicated by the Examiner.

Further, Applicants note that the Examiner indicated in paragraph 7 of the Office Action that claims 53, 55, 57, 59, 61, 63, 65, 67 and 69-84 would be allowable if rewritten or amended to overcome the rejection under 35 USC §112, second paragraph. Amendments were made to these claims to overcome the rejection under 35 USC §112,

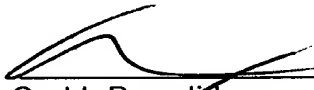
second paragraph. Therefore, claims 53, 55, 57, 59, 61, 63, 65, 67 and 69-84 are allowable as indicated by the Examiner.

In view of the foregoing amendments and remarks, Applicants submit that claims 53-84 are in condition for allowance. Accordingly, early allowance of the present application based on claims 53-84 is respectfully requested.

To the extent necessary, the applicants petition for an extension of time under 37 CFR 1.136. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, or credit any overpayment of fees, to the deposit account of Antonelli, Terry, Stout & Kraus, LLP, Deposit Account No. 01-2135 (520.37902X00).

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP



Carl I. Brundage
Registration No. 29,621

CIB/jdc
(703) 312-6600